

THE CLAIMS

1. A clip mount for a cellular phone attachment system with a button mount, said clip mount comprising:

a body defining a complementary locking cavity for said button;

a resilient locking tongue disposed in said complementary locking cavity adapted to bias said button into a locking position in said locking cavity, said resilient locking tongue having at least one cam surface; and

a movable cam actuator movably mounted on said body and having at least one cam actuator surface coacting with said at least one cam surface wherein, in a first position of said cam and cam actuator surfaces, said resilient locking tongue is adapted to bias said button into said locking position in said locking cavity and, in a second position, said cam actuator surface acting on said cam surface flexes said resilient locking tongue out of said locking position thereby adapted to release said button.

2. A clip mount as claimed in claim 1 wherein said movable cam actuator is biased towards said first position.

3. A clip mount as claimed in claim 1 wherein said body is generally rectangular and said cam actuator is elongated and moves longitudinally in said rectangular body.

4. A clip mount as claimed in claim 3 wherein said body defines a channel therein for said cam actuator, said cam actuator moving within said channel.

5. A clip mount as claimed in claim 4 wherein said cam actuator includes a first, exposed terminal end defining a user actuation surface thereat and a second end disposed within said channel of said body.

6. A clip mount as claimed in claim 5 wherein said movable cam actuator is biased towards said first position.
7. A clip mount as claimed in claim 6 including a resilient member, disposed between said cam actuator and said body, biasing said cam actuator towards said first position.
8. A clip mount as claimed in claim 7 wherein said cam actuator is U-shaped having a base and two legs extending from the base, said user actuation surface being defined on said base of said U-shaped cam actuator and at least one of legs defining said cam actuation surface.
9. A clip mount as claimed in claim 8 wherein said cam surface and said cam actuator surface have complementary sloped surfaces.
10. A clip mount as claimed in claim 9 wherein channel is channel cavity and said body defines leg channels complementary to said legs of said cam actuator in said channel cavity, said legs of said cam actuator move within said complementary leg channels.
11. A clip mount as claimed in claim 10 wherein said resilient member is a spring.
12. A clip mount as claimed in claim 11 said spring is a pair of springs, wherein each actuator leg has a stop and a respective spring of said pair of springs acts on a corresponding stop and a respective opposing body site in said clip body thereby biasing said cam actuator towards said first position.
13. A clip mount as claimed in claim 12 wherein said clip body includes a belt loop.
14. A clip mount as claimed in claim 13 wherein said belt loop is on an opposite side of said rectangular body as compared to said locking cavity defined by said body.
15. A clip mount as claimed in claim 14 wherein said locking cavity is defined by at least a semi-circular rim, said rim adapted to catch said button therein, said resilient locking tongue disposed

opposite said semi-circular rim and adapted to bias said button towards said rim into said locking position.

16. A clip mount as claimed in claim 15 wherein said button defines a plurality of notches, said semi-circular rim including a resiliently mounted nub adapted to coact with one of said plurality of notches on said button stem.

17. A clip mount as claimed in claim 16 wherein said button has a stem and a peripheral plate atop said stem, said stem defines said plurality of notches.

18. A clip mount as claimed in claim 2 including a resilient member, disposed between said cam actuator and said body, biasing said cam actuator towards said first position.

19. A clip mount as claimed in claim 18 wherein said resilient member is a spring.

20. A clip mount as claimed in claim 1 wherein said cam surface and said cam actuator surface have complementary sloped surfaces.

21. A clip mount as claimed in claim 1 wherein said cam actuator includes a second cam actuator surface, said resilient locking tongue includes a second cam surface; said second cam actuator surface coacting with said second cam surface, said cam actuator adapted to bias said resilient locking tongue into a button locking position when in said locking position.

22. A clip mount for a cellular phone attachment system with a button mount, said clip mount comprising:

 a body defining a complementary locking cavity for said button;
 a resilient locking tongue disposed in said complementary locking cavity adapted to bias said button into a locking position in said locking cavity, said resilient locking tongue having a first and a second cam surface; and

a movable cam actuator movably mounted on said body and having a first and a second cam actuator surface respectively coacting with said first and second cam surfaces wherein,

in a first actuator position, said second cam actuator surface and said second cam surface causes said resilient locking tongue to lock said button into said locking position and,

in a second actuator position, said first cam actuator surface and said first cam surface flex said resilient locking tongue out of said first position thereby adapted to release said button.

23. A clip mount as claimed in claim 22 wherein said movable cam actuator is biased towards said first position.

24. A clip mount as claimed in claim 22 wherein said body is generally rectangular and said cam actuator is elongated and moves longitudinally in said rectangular body.

25. A clip mount as claimed in claim 24 wherein said body defines a channel therein for said cam actuator, said cam actuator moving within said channel.

26. A clip mount as claimed in claim 25 wherein said cam actuator includes a first, exposed terminal end defining a user actuation surface thereat and a second end disposed within said channel of said body.

27. A clip mount as claimed in claim 26 wherein said movable cam actuator is biased towards said first position.

28. A clip mount as claimed in claim 27 including a resilient member, disposed between said cam actuator and said body, biasing said cam actuator towards said first position.

29. A clip mount as claimed in claim 28 wherein said cam actuator is U-shaped having a base and two legs extending from the base, said user actuation surface being defined on said base of said U-shaped cam actuator and at least one of legs defining said cam actuation surface.

30. A clip mount as claimed in claim 29 wherein said cam surface and said cam actuator surface have complementary sloped surfaces.

31. A clip mount as claimed in claim 30 wherein channel is channel cavity and said body defines leg channels complementary to said legs of said cam actuator in said channel cavity, said legs of said cam actuator move within said complementary leg channels.

32. A clip mount as claimed in claim 31 wherein said resilient member is a spring.

33. A clip mount as claimed in claim 32 said spring is a pair of springs, wherein each actuator leg has a stop and a respective spring of said pair of springs acts on a corresponding stop and a respective opposing body site in said clip body thereby biasing said cam actuator towards said first position.

34. A clip mount as claimed in claim 34 wherein said clip body includes a belt loop.

35. A clip mount as claimed in claim 34 wherein said belt loop is on an opposite side of said rectangular body as compared to said locking cavity defined by said body.

36. A clip mount as claimed in claim 35 wherein said locking cavity is defined by at least a semi-circular rim, said rim adapted to catch said button therein, said resilient locking tongue disposed opposite said semi-circular rim and adapted to bias said button towards said rim into said locking position.

37. A clip mount as claimed in claim 36 wherein said button defines a plurality of notches, said semi-circular rim including a resiliently mounted nub adapted to coact with one of said plurality of notches on said button stem.

38. A clip mount as claimed in claim 37 wherein said button has a stem and a peripheral plate atop said stem, said stem defines said plurality of notches.

39. A clip mount as claimed in claim 23 including a resilient member, disposed between said cam actuator and said body, biasing said cam actuator towards said first position.

40. A clip mount as claimed in claim 39 wherein said resilient member is a spring.

41. A clip mount as claimed in claim 22 wherein said cam surface and said cam actuator surface have complementary sloped surfaces.

42. A clip mount for a cellular phone attachment system with a button mount, said clip mount comprising:

- a body defining a complementary locking cavity for said button;
- a resilient locking tongue disposed in said complementary locking cavity adapted to bias said button into a locking position in said locking cavity;
- a movable cam actuator movably mounted on said body;
- a locking cam and cam actuator defined on a corresponding one of said locking tongue and said movable actuator;
- an unlocking cam and cam actuator defined on a corresponding one of said locking tongue and said movable actuator;

wherein said locking cam and cam actuator causes said resilient locking tongue to lock said button into said locking position and,

 said unlocking cam and cam actuator flex said resilient locking tongue out of said first position thereby adapted to release said button.

43. A clip mount as claimed in claim 42 wherein said movable cam actuator is biased towards a locking position.

44. A clip mount as claimed in claim 42 wherein said cam actuator includes a first, exposed terminal end defining a user actuation surface thereat and a second end disposed about said locking cavity.

45. A clip mount as claimed in claim 44 including a resilient member, disposed between said cam actuator and said body, biasing said cam actuator towards said locking position.

46. A clip mount for a cellular phone attachment system with a button mount, said clip mount comprising:

a body defining a complementary locking cavity for said button;

a resilient locking tongue disposed in said complementary locking cavity adapted to bias said button into a locking position in said locking cavity, said resilient locking tongue having a locking cam surface; and

a movable cam actuator movably mounted on said body and having a complimentary cam actuator surface respectively coacting with said locking cam surface wherein, in a predefined actuator position, said cam actuator surface and said cam surface causes said resilient locking tongue to lock said button into said locking position.

47. A clip mount as claimed in claim 46 wherein said movable cam actuator is biased towards said predefined position.

48. A clip mount as claimed in claim 47 wherein said cam actuator includes a first, exposed terminal end defining a user actuation surface thereat and a second end disposed about said locking cavity.

49. A clip mount as claimed in claim 48 including a resilient member, disposed between said cam actuator and said body, biasing said cam actuator towards said predefined position.

50. A method of mounting a cellular phone attachment system with a button mount onto a clip mount comprising:

providing a clip mount body defining a complementary locking cavity for said button and a resilient locking tongue disposed in said complementary locking cavity;

biasing said button into a locking position in said locking cavity;

providing a sloped cam surface on said resilient locking tongue; and

moving a second cam surface over the locking tongue cam surface thereby flexing said resilient locking tongue from a first locking position to a second button release position.

51. A method as claimed in claim 50 including providing a actuation member with a user actuation surface, said actuation member defining said second cam surface, movably mounting said actuation member in said body such that upon movement of said actuation member, said second cam surface moves over said locking tongue cam surface and flexes said locking tongue from said locking position to said button release position.

52. A method as claimed in claim 51 including biasing said actuation member such that said second cam surface does not flex said locking tongue via said locking tongue cam surface.

53. A method as claimed in claim 50 including biasing said tongue into said locking position.

54. A method of mounting a cellular phone attachment system with a button mount onto a clip mount comprising:

providing a clip mount body defining a complementary locking cavity for said button and a resilient locking tongue disposed in said complementary locking cavity;

biasing said button into a locking position in said locking cavity with said tongue;

biasing said tongue in said locking position; and

flexing said resilient locking tongue from a first locking position to a second button release position by cam action via said tongue.